

RAM POLISETTI

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SKILLS

Programming & Development	Python, Java, C++, C#, JavaScript, TypeScript, SQL, Scala, Go, React, Angular, Node.js, Django, Spring,
Cloud & DevOps:	GraphQL, REST APIs, Mobile App Development (iOS/Android)
Data Management & Analytics	AWS (EC2, S3, Lambda, Redshift, RDS, IAM), Azure, Docker, Kubernetes, CI/CD, Jenkins, GitLab,
Machine Learning & AI	PostgreSQL, MySQL, MongoDB, Cassandra, DynamoDB, Hadoop, Spark, ETL, Data Warehousing
Software Engineering	TensorFlow, scikit-learn, Natural Language Processing, Data Mining, Optimization Mathematics
	Object-Oriented Programming, Functional Programming, Design Patterns, Distributed Systems,
	System Design, Scalability, Performance Optimization
Methodologies & Tools	Agile, Scrum, SDLC, Git, Selenium, Apache Kafka, Airflow, Debugging, Troubleshooting, Code
	Review, User Interface Design, User Experience Principles (UI/ UX), Microservices Architecture
Awards	Amazon Principles Award for taking initiative in automated scheduling system.
Certifications	Data Analyst Professional by Google, Data Engineering by ZoomCamp

EDUCATION

Master of Science, Major: Computer and Information Sciences	Sept 2022 – Jan 2024
University at Buffalo – SUNY	New York, USA

WORK EXPERIENCE

Software Engineer	Jul 2024 – Sept 2024
MSRCosmos	Seattle, USA
<ul style="list-style-type: none">Engineered and integrated supervised learning models using Java, enhancing predictive analytics capabilities for large-scale distributed systems. Implemented object-oriented design principles to create modular and maintainable code, resulting in a 25% improvement in data-driven decision making efficiency.Architected responsive web applications with Java and C++, integrating RESTful APIs to enhance user experience. Utilized multi-tiered architecture to improve overall system performance by 30%, ensuring scalability and robustness of the applications; improving overall development efficiency, team collaboration and code quality.Orchestrated automated testing with Jenkins and version control via GitLab in a complex, ambiguous development environment. Optimized CI/CD pipelines, reducing time-to-market for new features.	
Software Engineer	Apr 2024 – Jul 2024
JerseyStem	New Jersey, USA
<ul style="list-style-type: none">Constructed a robust data management system using Java and relational databases, designing an optimized schema to efficiently manage data for over 1000 students and 250 sponsors. Applied advanced algorithms to handle complex data relationships and ensure data integrity across multiple tiers.Crafted a comprehensive web application using Java and object-oriented design principles, providing user-friendly access to sponsorship data and analytics. Implemented efficient data retrieval algorithms, increasing data accessibility by 40% and enabling effective handling of undefined data scenarios.	
Software Engineer (Operations Center)	Nov 2020 – July 2022
Amazon	Hyderabad, India
<ul style="list-style-type: none">Spearheaded the deployment of a fault-tolerant, microservices-based architecture using Java and C++, improving system scalability and resilience by 50%. Designed and implemented distributed algorithms to handle load balancing and ensure high availability in a multi-tiered environment.Formulated efficient ETL pipelines using Java, transforming data from 15 disparate sources. Optimized data processing algorithms, improving speed by 35% and enabling real-time analytics for large-scale distributed systems.Devised complex algorithms for route optimization and fraud detection using C++ and mathematical optimization techniques. Implemented linear programming models, reducing empty miles by 15% and identifying potential fraud cases with 90% accuracy in ambiguous data scenarios.	

PROJECTS

Full-Stack E-commerce Platform Capstone Project	
<ul style="list-style-type: none">• Pioneered a scalable e-commerce platform using Java and C++, implementing a microservices architecture; improved system performance by 40%. Designed and optimized relational database schemas to handle high-volume transactional data.• Innovated a collaborative filtering recommendation system using Java and advanced algorithms. Implemented object-oriented design patterns to ensure code reusability and maintainability across the platform.	
Sentiment-based Trading System Academic Paper	
<ul style="list-style-type: none">• Engineered a Python-based sentiment analysis model using NLTK and scikit-learn to classify market sentiment from financial news and social media. Developed and backtested a trading algorithm leveraging sentiment scores for buy/sell decisions.	